DISTRIBUTION
UNIT MANAGERS' MEETING
200 AREA GROUNDWATER AND SOURCE OPERABLE UNITS

Bryan Foley ..... DOE-RL RP (A5-13)
Marvin Furman ..... DOE-RL RP (A5-13)
Ellen Mattlin ..... DOE-RL EAP (A2-15)
Mike Thompson ..... DOE-RL RP (A5-13)
Arlene Tortoso ..... DOE-RL RP (H0-12)
Lisa Treichel ..... DOE-HQ (EM-442)

Dennis Faulk ..... EPA (B5-01)

Brenda Jentzen ..... WDOE (Kennewick) (B5-18)
Zelma Maine ..... WDOE (Kennewick) (B5-18)
Tina Masterson-Heggen ..... WDOE (Kennewick) (B5-18)
John Price ..... WDOE (Kennewick) (B5-18)
Matt Mills ..... WDOE (Kennewick) (B5-18)

Lynn Curry ..... BHI (H0-19)
Garrett Day ..... BHI (H0-19)
Bruce Ford ..... BHI (H0-21)
Alison Bryan ..... BHI (H0-21)
Greg Mitchem ..... BHI (H0-19)
Joan Woolard ..... BHI (H0-02)

Tim Lee ..... CHI (H9-02)
Virginia Rohay ..... CHI (H0-19)
L. Craig Swanson ..... CHI (H9-02)
Mary Todd ..... CHI (H9-03)
Curtis Wittreich ..... CHI (H9-03)

Stuart Luttrell ..... PNNL (K6-96)
Mark Sweeney ..... PNNL (K6-81)

Administrative Record (2) ..... BHI (H0-09)

Please inform Alison Bryan – BHI (372-9192)
of deletions or additions to the distribution list.

Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
200 Area Groundwater and Source Operable Units
3350 George Washington Way, Richland, Washington
NOVEMBER 2001

APPROVAL: _____ Date 01/24/02
Bryan Foley, 200 Area Unit Manager, DOE/RL (A5-13)

APPROVAL: _____ Date 02/06/02
Arlene Tortoso, Groundwater Unit Manager, DOE/RL (H0-12)

APPROVAL: _____ Date 3-5-02
Dennis Faulk, 200 Area Unit Manager, EPA (B5-01)

APPROVAL: _____ Date 5-Mar-02
John Price, 200 Area Unit Manager, Ecology (B5-18)

Meeting minutes are attached. Minutes are comprised of the following:

Attachment 1	--	Agenda
Attachment 2	--	Attendance Record
Attachment 3	--	200 Area Current Action Log
Attachment 4	--	200 Area UMM Minutes – November 2001
Attachment 5	--	Carbon Tetrachloride Rebound Concentrations Monitored at 200-PW-1 (200-ZP-2) Soil Vapor Extraction Sites July 2001 – October 2001
Attachment 6	--	Comparison of Maximum Carbon Tetrachloride Rebound Concentrations Monitored at 200-PW-1 (200-ZP-2) Soil Vapor Extraction Sites FY 1997 – FY 2002

Prepared by: _____ Date 1-3-02
Alison Bryan, BHI GW/VZ Integration Project (H0-19)

Concurrence by: _____ Date 1/11/02
Bruce Ford, BHI GW/VZ Integration Project (H0-19)

UNIT MANAGERS' MEETING AGENDA

3350 George Washington Way
November 29, 2001

9-11 a.m. **200 Area** **Room 1B45**

General (10 minutes)

- Outstanding Action Items (attached)
- Open for regulatory topics or action items

200-BP-5 (10 minutes)

- Status on Groundwater Sampling and Analysis Plan

200-UP-1 (10 minutes)

- Pump and Treat treatment system operation's status
- Monitoring well installation and characterization sampling status
- Open discussion

200-ZP-1 (10 minutes)

- Status of Well Drilling at PFP
- Pump and Treat treatment system operation's status
- Open discussion

200-PW-1 Plutonium/Organic-Rich Process Waste OU (10 minutes)

- Monthly Soil Vapor Monitoring
- Soil Vapor Extraction system
  - Active system status
  - Passive system status
  - *Open discussion*
- RI/FS Work Plan status

200-CS-1 Chemical Sewer OU (5 minutes)

- Status Fieldwork (Test Pits)

200-CW-5 U Pond/Z Ditches Cooling Water OU (5 minutes)

- Optimization of Shallow Casing Gamma Logging Task

Groundwater and Source Operable Units Unit Managers' Meeting
Official Attendance Record – 200 Area
November 29, 2001

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Craig Cameron	EPA	TW ~~EW~~-1, CW-5 BP-5, MW-4	376-8665
Garrett Day	BHI	Groundwater OU's	372-9571
Bruce Ford	BHI	200 Area Task Lead	372-9105
Virginia Rohay	ERC	CCU tech support	372-9100
Craig Swanson	CHI	P&T Tech Support	372-9353
Stuart Luttrell	PNNL	GW Mon. Proj.	376-6023
Arlene Tortoso	DOE	GW PM	373-9631
Curt Wittreich	CHI	200 AMA	372-9586
Matt Mills	Ecology	CS-1	736-5721
Chris Clearlock	CHI	200-CS-1	372-9638

200 Area Unit Managers' Meeting
OPEN ACTION ITEMS & TRACKING

Action No.	Brief Action/Subject	Assigned To	Originator	Assigned Date	Original Due Date	Adjusted Due Date	Date Complete	Status
16	Distribution of UMM minutes for January, February, March, April, May, and June 2001	Bruce Ford, BHI	Dennis Faulk, EPA	06/28/2001				In review

Attachment 3

MEETING MINUTES
200 AREA GROUNDWATER AND SOURCE OPERABLE UNITS
UNIT MANAGERS' MEETING -- 200 AREA
November 29, 2001

Attendees: See Attachment #2

Agenda: See Attachment #1

Topics of Discussion:

1. ***General***

- Outstanding Action Items – (see attached) No discussion.

- Open for Regulatory Topics or Action Items – No discussion.

2. ***200-BP-5***

- Status on Groundwater Sampling and Analysis Plan – EPA is working with DOE-RL on the Sampling and Analysis Plan. It has been submitted for signature.

3. ***200-UP-1***

- Pump and Treat Treatment Systems Operations Status – The system is operating at 45 gallons per minute. A new extraction well will be added by the end of December. It is estimated it will increase the extraction rate by 10 to 15 gallons per minute.

- Monitoring Well Installation and Characterization Sampling Status – The use of one of the monitoring wells as a backup extraction well is being considered.

4. ***200-ZP-1***

- Status of Well Drilling at PFP – Drilling resumed November 26, 2001, at the alternate well location. Currently the well is at 52 feet in depth. Two soil samples and one vapor sample have been collected. No carbon tetrachloride was detected. An estimated completion date is January 31, 2002.

- Pump and Treat Treatment System Operations Status – The flow is running at 150 to 175 gallons per minute. The extraction rates are being fine-tuned.

200-PW-1 Plutonium/Organic-Rich Process Waste OU

- Monthly Soil Vapor Monitoring – A handout was distributed and reviewed by Virginia Rohay regarding carbon tetrachloride vapor monitoring. (Attached) The data showed nothing inconsistent with past readings.

- Soil Vapor Extraction System –
  - Active System Status – The system has been shut down for the winter.
  - Passive System Status – The passive extraction data, beyond what was in the annual report in September, are not yet available.
- RI/FS Work Plan Status – The Work Plan is on schedule. DOE/RL has reviewed the Work Plan and comments were incorporated. It will be delivered to EPA by the end of December.

5. *200-CS-1 Chemical Sewer OU*

- Status Fieldwork (Test Pits) – The test pit characterization activities for the 200-CS-1 OU and the 216-A-29 Ditch Sampling for Project W-211 were conducted from October 29 to November 2, 2001. Test pits AD-1, AD-2, and AD-3 were completed at the 216-A-29 Ditch. Test pit BT-2 at the 216-B-63 Trench was started, but then terminated (when significant contamination was encountered) due to concerns of contaminating the non-regulated excavator. A reading of 1250 cpm beta/gamma were observed at this depth. The test pit characterization activities were temporarily put on hold until a regulated excavator is available for use for the remaining test-pits. A regulated excavator is expected to be available for use in late-January/early-February. Test pit BT-2 will be relocated 10 to 20 ft upstream of the original location and samples will be collected in accordance with the Work Plan.

  A preliminary review of the AD-3 Test Pit (CHG test pit) data from the 216-A-29 Ditch indicates that the radionuclides detected are at background concentrations. Th-228, Th-232, Ra-226, Ra-228, U-233, and U-238 were the primary radionuclides detected at concentrations less than 1.5 pCi/g. K-40 was also detected at background concentrations. Cs-137, Sr-90, and Pu-239 were not detected above the method detection activity (MDA).

  For the nonradionuclides, all VOCs, PCBs, and Diesel Range Organics were below detection limits for all samples. Several SVOC were detected at low levels in only the 5.0-6.0 ft sample. All others sample intervals were below detection limit for SVOCs. The maximum concentrations detected in the samples for lead and arsenic were 11.7 mg/kg and 12.2 mg/kg, respectively. Hydrazine, as expected, was not detected above detection limits for any of the samples.

  A summary report for the CHG test pit work at the 216-A-29 Ditch for project W-211 will be completed in December. A contained-in-determination for the removal of the U-133 code (hydrazine) for investigation derived waste at the 216-A-29 Ditch will be submitted to Ecology in late-January.

  Analytical data for the test pits AD-1, AD-2, and BT-2 are expected in mid-December.

6. *200-CW-5 U Pond/Z Ditches Cooling Water OU (5 minutes)*

- Optimization of Shallow Casing Gamma Logging Task – A meeting with EPA will be scheduled for sometime in the first week of December to provide some information to EPA and to discuss ways to cost-effectively complete the shallow gamma logging.

Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 (200-ZP-2) Soil Vapor Extraction Sites
July 2001 - October 2001

200-PW-1						
(200-ZP-2)			07/31/2001	08/30/2001	09/25/2001	11/05/2001
Location	Site	Zone				
(Well or Probe)			CCl4	CCl4	CCl4	CCl4
/feet bgs			(ppmv)	(ppmv)	(ppmv)	(ppmv)
CPT-17/ 10 ft	Z-9	2				2.5
CPT-18/ 15 ft	Z-9	2				1.2
CPT-16/ 25 ft	Z-9	2				0
CPT-32/ 25 ft	Z-1A	2	0	0	0	0
CPT-4A/ 25 ft	Z-1A	2	0	0	0	
CPT-30/ 28 ft	Z-1A	2	0	0	0	0
CPT-13A/ 30 ft	Z-1A	2	0	0	1.9	0
CPT-7A/ 32 ft	Z-1A	2	3.8	4.2	4.1	1.8
CPT-27/ 33 ft	Z-9	2				1.2
CPT-1A/ 35 ft	Z-12	2	11.3	10.5	9.5	6.4
CPT-28/ 40 ft	Z-9	2	52.8	54.8	56.5	
CPT-33/ 40 ft	Z-1A	2	0	1.1	1.6	
CPT-34/ 40 ft	Z-18	2	1.5	1.8	2.2	
CPT-21A/ 45 ft	Z-9	2	90.9	133	126	88
CPT-9A/ 60 ft	Z-9	2	38.1	39	45.3	35
CPT-32/ 70 ft	Z-1A	2	4.0	3.9	4.3	
CPT-4A/ 75 ft (b)	Z-1A	2			7.1	
W15-82/ 82 ft	Z-9	2				15.6
W15-95/ 82 ft	Z-9	2				----- (c)
CPT-21A/ 86 ft	Z-9	2	179	186	184	148
CPT-28/ 87 ft	Z-9	2	167	225	220	136
CPT-1A/ 91 ft	Z-12	2	5.7	6.8	8.3	
CPT-4A/ 91 ft (a)	Z-1A	2	7.5	7.5		
CPT-9A/ 91 ft	Z-9	2	57.2	62.3	74.3	
W18-165/ 108 ft	Z-1A	2				----- (c)
W18-152/ 113 ft	Z-12	2	10.2	22.8	25.7	19
W15-217/ 115 ft	Z-9	3				86
W18-158L/ 123 ft	Z-1A	3	90.6	163	159	
W18-167/ 123 ft	Z-1A	3	283	229	248	254
W18-249/ 134 ft	Z-18	3	44.6	161	196	63
W18-248/ 136 ft	Z-1A	3	306	274	236	226
W15-9L/ 189 ft	Z-9	6				----- (c)
(a) Water noted in line at CPT-4A/ 91 ft, 7/31/01, 8/30/01.						
This is the first time that water has been encountered during ZP-2 sampling.						
(b) Substitute for CPT-4A/ 91 ft						
(c) not sample-ready						

Comparison of Maximum Carbon Tetrachloride Rebound Concentrations Monitored at 200-PW-1 (200-ZP-2) Soil Vapor Extraction Sites FY 1997 - FY 2002

200-PW-1 (200-ZP-2) Location (Well or Probe) /feet bgs	Site	Zone	November 1996 - July 1997 Maximum Rebound Carbon Tetrachloride (ppmv)	months of rebound	October 1997 - September 1998 Maximum Rebound Carbon Tetrachloride (ppmv)	months of rebound	July 1998 - September 1999 Maximum Rebound Carbon Tetrachloride (ppmv)	months of rebound	July 1999 - June 2001 Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	July 2001 - September 2001 Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	October 2001 - March 2002 Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound
79-03/ 5 ft	Z-18	1	0	8	0	3	0	12						
79-06/ 5 ft	Z-1A	1	not measured		not measured		1.4	12						
79-11/ 5 ft	Z-1A	1	0	8	0	6	2.9	12						
86-05/ 5 ft	Z-9	1	not measured		not measured		0	3						
86-05-01/ 5 ft	Z-9	1	not measured		not measured		0	3						
86-06/ 5 ft	Z-9	1	1.3	8	0	9	1.9	6						
87-05/ 5 ft	Z-1A	1	not measured		0	3	1.0	12						
87-09/ 5 ft	Z-1A	1	not measured		1.5	3	2.6	12						
94-02/ 5 ft	Z-9	1	0	8	not measured		1.4	3						
95-11/ 5 ft	Z-9	1	0	8	2.1	9	2.5	6						
95-12/ 5 ft	Z-9	1	1.1	8	1.5	9	1.3	6						
95-14/ 5 ft	Z-9	1	not measured		not measured		0	3						
CPT-13A/ 9 ft	Z-1A	2	not measured		0	6	1.0	12						
CPT-16/ 10 ft	Z-9	2	not measured		0	9	1.5	6						
CPT-17/ 10 ft	Z-9	2	not measured		4.2	9	5.1	6	6.6	24			2.5	1
CPT-18/ 15 ft	Z-9	2	not measured		6.5	9	5.0	6	5.2	24			1.2	1
CPT-31/25 ft	Z-1A	2	not measured		0	6	0	12						
CPT-16/ 26 ft	Z-9	2	not measured		not measured		not measured		1.8	24			0	1
CPT-32/ 25 ft	Z-1A	2	not measured		9.1	6	10	12	16.5	18	0	3	0	4
CPT-4A/ 25 ft	Z-1A	2	not measured		not measured		not measured		3.5	0	0	3		
CPT-30/ 28 ft	Z-18	2	not measured		not measured		3.2	12	1.4	18	0	3	0	4
CPT-13A/ 30 ft	Z-1A	2	2.2	8	not measured		not measured		3.6	18	2	3	1.9	4
CPT-7A/ 32 ft	Z-1A	2	not measured		2.3	6	5.4	12	6.2	18	4.2	3	4.2	4
CPT-27/ 33 ft	Z-9	2	1.2	8	not measured		not measured		2.6	24			1.2	1
CPT-1A/ 35 ft	Z-18	2	2.0	8	1.4	3	3.0	12	7.7	18	11.3	3	11.3	4
CPT-28/ 40 ft	Z-9	2	40.1	8							56.5	0		
CPT-33/ 40 ft	Z-1A	2	not measured		2.0	3	2.6	12			2	3		
CPT-34/ 40 ft	Z-18	2	2.3	8	not measured		1.7	12	1.9	0	2.2	3		
CPT-21A/ 45 ft	Z-9	2	65.6	8	52.7	9	57	3	127	24	133	0	133	1
W15-220ST/ 52 ft	Z-9	2	2	8	not measured		1.6	3	2.5	24				
CPT-26/ 60 ft	Z-9	2	not measured		1.5	0	3.7	3						
CPT-9A/ 60 ft	Z-9	2	45.5	8	41.1	0	44	3	68	24	45.3	0	45.3	1
CPT-30/ 68 ft	Z-18	2	1.7	8	not measured		3.0	12						
CPT-32/ 70 ft	Z-1A	2	7.4	8							4.3	3		
CPT-13A/ 70 ft	Z-1A	2	5.2	8	not measured		5.6	12						
CPT-24/70 ft	Z-9	2	not measured		3.2	9	3.6	3						
W15-219SST/ 70 ft	Z-9	2	14.6	8	not measured		7.6	3	7.8	24				
CPT-18/ 75 ft	Z-9	2	not measured		not measured		not measured		18	24				
CPT-4A/ 75 ft	Z-1A	2	not measured		not measured		not measured		not measured		7.1	3		
CPT-31/ 76 ft	Z-1A	2	4.0	8	not measured		4.2	12						
CPT-33/ 80 ft	Z-1A	2	5.8	8	not measured		9.2	12						
W15-92/ 82 ft	Z-9	2	26.9	8	5.5	9	46	6	55	24			15.6	1
W15-95/ 82 ft	Z-9	2	not measured		15.3	9	39	6	43	21			0	1
CPT-21A/ 86 ft	Z-9	2	221	8	206	9	148	6	195	24	186	0	186	1
CPT-34/ 86 ft	Z-18	2	36.3	8	5.9	3	0	12						
W15-218SST/ 86 ft	Z-9	2	not measured		not measured		0	3						
CPT-28/ 87 ft	Z-9	2	280	8	230	9	203	6	224	24	225	0	225	1
CPT-1A/ 91 ft	Z-18	2	3.9	8	not measured		4.2	12			8.3	3		
CPT-4A/ 91 ft	Z-1A	2	not measured		7.7	3	14	12			7.5	3		
CPT-9A/ 91 ft	Z-9	2	103	8	34.5	9	72	3			74.3	0		
W15-95/ 92 ft	Z-9	2	not measured		not measured		not measured		51	24				
W18-252SST/ 100	Z-1A	2	38.2	8	17.8	3	24	12						
W18-168/ 108 ft	Z-1A	2	not measured		not measured		not measured		not measured		not measured		0	4
W18-152/ 113 ft	Z-12	2	46.8	8	11.1	3	33	12	25	18	26.7	3	26.7	4
W15-217/ 115 ft	Z-9	3	797	8	630	9	561	6	442	24			86	1
CPT-24/ 118 ft	Z-9	3	44.6	8	37.7	9	37	6	35	24				
W15-220SST/ 118	Z-9	4	21.9	8	not measured		36	3	34	24				
W18-158U/ 123 ft	Z-1A	3	not measured		143	3	492	12	284	18	183	3		
W18-167/ 123 ft	Z-1A	3	323	8	79.7	3	228	12	248	18	283	3	283	4
W18-219SST/ 130	Z-9	4	296	8	not measured		47	3	54	24				
W18-249/ 134 ft	Z-18	3	206	8	20.4	3	215	12	176	18	196	3	196	4
W18-248/ 136 ft	Z-1A	3	296	8	86.3	3	177	12	214	18	306	3	306	4
W15-219SST/ 155	Z-9	5	59.6	8	not measured		24	3	44	24				
W15-220SST/ 185	Z-9	5	14.5	8	not measured		13	3	15	24				
W15-6L/ 189 ft	Z-9	6	22.6	8	17.8	9	1.3	6						
W15-9L/ 189 ft	Z-9	6	18.3	8	15.0	9	15	6	20	21			0	1
W18-7/ 200 ft	Z-1A	6	28.5	8	17.3	3	29	12						
W18-6L/ 206 ft	Z-1A	6	36	8	31.3	6	15	12						
W18-12/ 210 ft	Z-18	6	not measured		3.8	3	19	12						

* - based on location (Z-1A/18/12 or Z-9) of monitoring point; specific points may be beyond SVE zone of influence during particular operating configurations

- Z-18 and Z-12 wells off-line Oct 96 - Apr 98
- CPT-1A, CPT-9A, and possibly CPT-7A appeared to be beyond SVE zone of influence in Oct 96 based on differential pressure (BHI-01105, p. 6-1)
- CPT-9A, CPT-21A, CPT-28 beyond SVE zone of influence in May 98 based on CCl4 concentrations and airflow modeling based on measured vacuums (BHI-01105, p. 6-1)